

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/797, 748A
Source: IFW16
Date Processed by STIC: 11/15/2005

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 11/15/2005

PATENT APPLICATION: US/10/797,748A

TIME: 10:24:13

Input Set : A:\51302-00002 Sequence Listing.txt

Output Set: N:\CRF4\11152005\J797748A.raw

```

3 <110> APPLICANT: MGP Biotechnologies LLC
4     Acey, Roger A.
5     Mustillo, Michael
6     Harpham, Brenton G.
8 <120> TITLE OF INVENTION: Metal Binding Proteins and Associated Methods
10 <130> FILE REFERENCE: 51302-00002
12 <140> CURRENT APPLICATION NUMBER: 10/797,748A
13 <141> CURRENT FILING DATE: 2004-03-09
15 <150> PRIOR APPLICATION NUMBER: 09/948,495
16 <151> PRIOR FILING DATE: 2001-09-06
18 <160> NUMBER OF SEQ ID NOS: 10
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 147
24 <212> TYPE: DNA
25 <213> ORGANISM: Artemia sp.
27 <400> SEQUENCE: 1
28 atggactgct gcaagaacgg ttgcacctgt gcccacaaatt gcaaagtgc caaagactgc      60
30 aaatgctgca aaggttgtga gtgcaaaaagc aaccacagaat gcaaagtga gaagaactgt      120
32 tcatgcaact catgtggttg tcaactga                                     147
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 48
37 <212> TYPE: PRT
38 <213> ORGANISM: Artemia sp.
40 <400> SEQUENCE: 2
42 Met Asp Cys Cys Lys Asn Gly Cys Thr Cys Ala Pro Asn Cys Lys Cys
43 1           5           10           15
46 Ala Lys Asp Cys Lys Cys Cys Lys Gly Cys Glu Cys Lys Ser Asn Pro
47           20           25           30
50 Glu Cys Lys Cys Glu Lys Asn Cys Ser Cys Asn Ser Cys Gly Cys His
51           35           40           45
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 66
56 <212> TYPE: DNA
57 <213> ORGANISM: Artemia sp.
59 <400> SEQUENCE: 3
60 atggactgct gcaagaacgg ttgcacctgt gcccacaaatt gcaaagtgc caaagactgc      60
62 aaatgc                                           66
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 22
67 <212> TYPE: PRT
68 <213> ORGANISM: Artemia sp.
70 <400> SEQUENCE: 4

```

RAW SEQUENCE LISTING

DATE: 11/15/2005

PATENT APPLICATION: US/10/797,748A

TIME: 10:24:13

Input Set : A:\51302-00002 Sequence Listing.txt

Output Set: N:\CRF4\11152005\J797748A.raw

```

72 Met Asp Cys Cys Lys Asn Gly Cys Thr Cys Ala Pro Asn Cys Lys Cys
73 1          5          10          15
76 Ala Lys Asp Cys Lys Cys
77          20
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 34
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial
85 <220> FEATURE:
86 <223> OTHER INFORMATION: 5' primer (N-terminal side) designated MT-Not I for PCR
87     amplification of Artemia metal binding protein sequences
89 <400> SEQUENCE: 5
90 acctatgctgg ccgcaaatgg actgctgcaa gaac          34
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 31
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial
98 <220> FEATURE:
99 <223> OTHER INFORMATION: 3' primer (C -terminal side) designated dT-Not I for PCR
100    amplification of Artemia metal binding protein sequences
102 <400> SEQUENCE: 6
103 gcaccaacta gtgccttttt tttttttttt a          31
106 <210> SEQ ID NO: 7
107 <211> LENGTH: 31
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial
111 <220> FEATURE:
112 <223> OTHER INFORMATION: 3' primer (C -terminal side) designated dT-Not I for PCR
113    amplification of Artemia metal binding protein sequences
115 <400> SEQUENCE: 7
116 gcaccaacta gtgccttttt tttttttttt c          31
119 <210> SEQ ID NO: 8
120 <211> LENGTH: 31
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial
124 <220> FEATURE:
125 <223> OTHER INFORMATION: 3' primer (C -terminal side) designated dT-Not I for PCR
126    amplification of Artemia metal binding protein sequences
128 <400> SEQUENCE: 8
129 gcaccaacta gtgccttttt tttttttttt g          31
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 33
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <223> OTHER INFORMATION: 5' primer containing an Nde I site
140 <400> SEQUENCE: 9
141 gctacacata tgtccatgga ctgctgcaag aac          33
144 <210> SEQ ID NO: 10

```

RAW SEQUENCE LISTING

DATE: 11/15/2005

PATENT APPLICATION: US/10/797,748A

TIME: 10:24:13

Input Set : A:\51302-00002 Sequence Listing.txt

Output Set: N:\CRF4\11152005\J797748A.raw

145 <211> LENGTH: 31

146 <212> TYPE: DNA

147 <213> ORGANISM: Artificial

149 <220> FEATURE:

150 <223> OTHER INFORMATION: 3' primer containing Sal I site

152 <400> SEQUENCE: 10

153 acgaacgtcg acgccttttt tttttttttt a

31

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/15/2005
PATENT APPLICATION: US/10/797,748A TIME: 10:24:14

Input Set : A:\51302-00002 Sequence Listing.txt
Output Set: N:\CRF4\11152005\J797748A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8,9,10

VERIFICATION SUMMARY

DATE: 11/15/2005

PATENT APPLICATION: US/10/797,748A

TIME: 10:24:14

Input Set : A:\51302-00002 Sequence Listing.txt

Output Set: N:\CRF4\11152005\J797748A.raw